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Ninety-Third

# Commencement Exercises

University of Arkansas

Saturday, June 3, 1967



Program

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Degrees Awarded

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# Commencement Exercises

University of Arkansas

Saturday, June 3, at 5:00 p. m.

1967

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Processional . . . . . *University Band*  
RICHARD WORTHINGTON, *Director*

The Star Spangled Banner . . . . .  
KENNETH BALLENGER, *Director*

Invocation . . . . .  
RABBI ELIJAH E. PALNICK  
*Temple B'nai Israel, Little Rock*

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THE HONORABLE JOHN W. GARDNER  
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Alma Mater . . . . . *Tovey*  
KENNETH BALLENGER

Pure as the dawn on the brow of thy Beauty  
Watches thy soul from the Mountains of God  
Over the fates of thy children departed  
Far from the land where their footsteps have trod  
Beacon of hope in thy ways dreary lighted,  
Pride of our hearts that are loyal and true;  
From those who adore unto one who adores us,  
Mother of Mothers, we sing unto you.—*By Brodie Payne*

Benediction . . . . .  
RABBI ELIJAH E. PALNICK

Recessional . . . . . *University Band*  
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- Jerome H. Brand (Secondary Mathematics)  
B.S.E., Nebraska State Teachers College
- Mary Ann Carey (Comparative Literature)  
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- Mary Ann Groves (Speech and Dramatic Art)  
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- Jackson J. Harrell (Speech and Dramatic Art)  
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- Karen Lee Hodges (English)  
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- Diane Divers Kincaid (Government)  
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- Sondra Schwarz Launey (Social Welfare)  
B.A., Mt. St. Scholastica College
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- Joseph N. Manley (Psychology)  
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B.A., University of Arkansas
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B.S.A., University of Arkansas
- James Dalton Brown (Zoology)  
B.S., North Carolina State College
- Thomas Oscar Brown (Horticulture)  
B.S.A., University of Arkansas
- Larry Eugene Browne (Zoology)  
B.A., Little Rock University
- Frances Anne Cherry Buercklin (Zoology)  
B.S., University of Arkansas
- Robert C. Cashner (Zoology)  
B.A., Arkansas College
- Darrell Wayne Collier (Physics)  
B.S., Arkansas State College
- Gary Ralph Conley (Natural Science)  
B.S.E., Ferris State College
- David Michael Dacus (Biochemistry)  
B.S., Ouachita Baptist College
- Fannie T. Dangerfield (Home Economics Education)  
B.S., Grambling College
- Benjamin Joseph Danzo (Physiology)  
B.A., Steubenville College
- Gerald L. Dean (Entomology)  
B.S.A., University of Arkansas
- Ronald William Dennie (Zoology)  
B.S., Little Rock University
- Bobby L. Derrick (Natural Science)  
B.A., University of Arkansas
- Joyce Ann DeVaney (Entomology)  
B.S., Eastern New Mexico University
- John William Dixon (Physics)  
A.B., William Jewell College
- M. Joycelyn Elders (Biochemistry)  
B.A., Philander Smith College



Marianne Zimmerman Ernst (Home Economics Education)  
 B.S., College of St. Teresa  
 Herbert Farrell Fendley (Natural Science)  
 B.A., University of Arkansas  
 Ben David Fuqua (Agronomy-Soils)  
 B.S., Murray State College  
 Kirk Kermit Hale, Jr. (Poultry Science)  
 B.S.A., University of Arkansas  
 William D. Hammers (Mathematics)  
 B.S.E., Kansas State Teachers College  
 Ferdinand F. Holland, Jr. (Chemistry)  
 B.S., Louisiana State University  
 Betty Anne Poe Holman (Home Economics Education)  
 B.S.H.E., University of Arkansas  
 Stephen Jay Hull (Poultry Science)  
 B.S.A., University of Arkansas  
 David Blair Kay (Physics)  
 B.S., University of Arkansas  
 Gerald Charles Koch (Chemistry)  
 B.S., University of Florida  
 Charles R. Liston (Zoology)  
 B.S., College of the Ozarks  
 Ovaline C. McEntire (Home Economics Education)  
 B.S., Henderson State Teachers College  
 Harrison L. Morrison (Animal Science)  
 B.S.A., University of Arkansas  
 William H. Neill, Jr. (Zoology)  
 B.S., University of Arkansas  
 Leslie Thomas Netherton (Chemistry)  
 B.A., John Brown University  
 James Marshall Oathout (Chemistry)  
 B.A., Hendrix College  
 Betty Ferguson Oliver (Home Economics Education)  
 B.S., Ouachita Baptist College

Robert B. Owen (Physics)  
 B.S.E.E., University of Arkansas  
 James Roy Peachey (Dairy Science)  
 B.S., Oklahoma State University  
 David Mason Pharr (Horticulture)  
 B.S.A., University of Arkansas  
 C. Joann Phillips (Home Economics Education)  
 B.S.H.E., University of Arkansas  
 William W. Phillips (Agronomy-Soils)  
 B.S.A., University of Arkansas  
 Jerry Smith Runsick (Agronomy-Soils)  
 B.S.A., Arkansas State College  
 James D. Sharp (Natural Science)  
 B.A., University of Arkansas  
 Callie Ann King Shull (Foods and Nutrition)  
 B.S.E., Arkansas State Teachers College  
 Johnnie Park Snow (Plant Pathology)  
 B.A., McMurry College  
 Charles Arthur Stigers (Physics)  
 A.B., William Jewell College  
 Donald Huey Terrell (Instrumental Science)  
 B.S., Northeast Louisiana State College  
 John Wesley Turner, Jr. (Mathematics)  
 B.S., East Central State College  
 Nancy Rebecca Turner (Home Economics Education)  
 B.S.H.E., University of Arkansas  
 Anderson Jay Ward (Microbiology)  
 B.S., Old Dominion College  
 Wylie W. Washburn (Mathematics)  
 B.S., Arkansas State Teachers College  
 Billy Eugene White (Zoology)  
 B.S., Little Rock University  
 Raymond Edward Williams (Mathematics)  
 B.A., Hendrix College

## MASTER OF BUSINESS ADMINISTRATION

John W. Alderson III  
 B.S., Arkansas State College  
 Terry Robert Bean  
 B.S.I.E., University of Arkansas  
 John Willis Henderson  
 B.S., Southwest Missouri State College  
 Victor J. Hiryak, Jr.  
 B.B.A., Arkansas A. & M. College

Bobby Jo Humphrey  
 B.S., Arkansas State Teachers College  
 Kenneth F. Kutz  
 B.S., Southwest Missouri State College  
 Henry West Shaw, Jr.  
 B.S., Arkansas Polytechnic College  
 Duane Evert Vandenberg  
 B.B.A., Texas A. & M. University



## MASTER OF EDUCATION

John C. Adams (Vocational Agricultural Education)

B.S.A., Arkansas State College

Donna Groom Bartell (Elementary Education)

B.S.E., University of Arkansas

Oscar Emerson Capps (Vocational Education)

B.S.E., Northeastern State College

James Lenard Coleman (Physical Education)

B.S., Arkansas A. M. & N. College

Margaret Fowler Covington

(Elementary Education)

B.S., Centenary College

Carutha E. T. Creggett (Elementary Education)

B.S., Arkansas A. M. & N. College

Sheila McCray Croxton (Music Education)

B.M., University of Arkansas

B.S.E., University of Arkansas

Madelyn Louise Stanley Edwards

(Physical Education)

B.S.E., University of Arkansas

Mary Ruth Miner Fallin (Vocational Education)

B.S.E., Arkansas State Teachers College

Barbara Jane Grant (Elementary Education)

B.S.E., Northeastern State College

Bonnie Jeane Willis Grimes (Elementary Education)

B.S.E., University of Arkansas

James Lawrence Hope (Educational Administration)

B.S.E., Ouachita Baptist College

Robert Joseph McKenzie (Educational Administration)

B.A., University of Arizona

Vernon F. McMurray, Jr. (Educational Administration)

B.S.B.A., Arkansas A. M. & N. College

Cynthia Joan Ligon Porter (Vocational Education)

B.S.E., University of Arkansas

Wayne Lindsey Robbins (Higher Education)

B.S., Mississippi State University

B.D., Southwest Baptist Seminary

Marie Shaffer Rouse (Elementary Education)

B.A., University of Arkansas

Carol Ann Spivey (Secondary Education)

B.S.E., University of Tulsa

Barney Alan Sugg (Higher Education)

B.S.B.A., University of Arkansas

Mary Ellen Varble (Elementary Education)

B.S.E., Southern Illinois University

Alphonso Thrower Williams (Vocational Education)

B.S., Arkansas A. M. & N. College

Elmer Wright, Jr. (Vocational Education)

B.S., Arkansas A. M. & N. College

## MASTER OF SCIENCE IN CIVIL ENGINEERING

William Harry Adkins (Civil Engineering)

B.S., University of Tulsa

Paul Kenneth Clements (Civil Engineering)

B.S.C.E., University of Arkansas

Lynn Curtis Doyle (Civil Engineering)

B.S.C.E., University of Arkansas

George William Hirsch (Civil Engineering)

B.S.C.E., University of Arkansas

Donald Elwin Lewis (Civil Engineering)

B.S.E.E., University of Arkansas

Robert Eugene Reece (Civil Engineering)

B.S.C.E., University of Arkansas

## MASTER OF SCIENCE IN ELECTRICAL ENGINEERING

Jim L. Gattis (Electrical Engineering)

B.S.E.E., University of Arkansas

James Franklin Stewart (Electrical Engineering)

B.S.E.E., Purdue University

Leonard Wiggins (Electrical Engineering)

B.S.E.E., University of Arkansas

## MASTER OF SCIENCE IN ENGINEERING

Theodore Borroum Hannah

B.S., University of Mississippi

## MASTER OF SCIENCE IN ENGINEERING SCIENCE

Robert Bynum Porter (Engineering Science)

B.C.E., Auburn University



## MASTER OF SCIENCE IN INDUSTRIAL ENGINEERING

Md Afsar Ali (Industrial Engineering)

B.S.C., East Pakistan University

Thomas Joseph Kirk (Industrial  
Engineering)

B.S.I.E., University of Arkansas

Don T. Phillips (Industrial Engineering)

B.S.I.E., Lamar State College

Scott Parker Thomas (Industrial  
Engineering)

B.S.I.E., Lamar State College

## MASTER OF MUSIC

Dennis A. Johnston (Voice)

B.A., Grinnell College

Richard Barton Wedgewood (Piano)

B.M.Ed., MacMurray College

Irene Louise Welden (Voice)

B.M., University of Tennessee



## DIPLOMA OF ADVANCED STUDY

Jarvis Bell (Educational Administration)

B.S.E., Henderson State Teachers College  
M.E., East Texas State Teachers College

Ishmael Claud Benton (Educational Administration)

B.S.E., University of Arkansas  
M.Ed., University of Arkansas

Hubert H. Blanchard (Educational Administration)

B.S.A., University of Arkansas  
M.S., University of Arkansas

Harry L. Cain (Educational Administration)

A.B., Arkansas College  
M.A., University of Arkansas

William Edward Coats (Educational Administration)

B.S., College of the Ozarks  
M.Ed., University of Arkansas

Chris D. Corbin (Educational Administration)

B.S.E., University of Arkansas  
M.S., University of Arkansas

Jimmie T. Daniel (Educational Administration)

B.S.E., Henderson State Teachers College  
M.Ed., University of Arkansas

Robert Carl Ehren (Educational Administration)

B.S., College of the Ozarks  
M.S., University of Tennessee

Clyde Brown Hogan (Educational Administration)

B.S.E., Arkansas State Teachers College  
M.S., Oklahoma State University

Frank Leslie Jones (Educational Administration)

B.A., Hendrix College  
M.A., George Peabody College

Ezra Floyd Kytte (Educational Administration)

B.S.E., University of Arkansas  
M.Ed., University of Arkansas

James Wilbur Mount (Educational Administration)

B.S.E., Arkansas State Teachers College  
M.A., University of Arkansas

Calvin Gareld Patterson (Educational Administration)

B.S.E., University of Arkansas  
M.A., University of Arkansas

Ralph Bishop Riley (Educational Administration)

B.S.E., University of Arkansas  
M.S., University of Arkansas

James Bradley Walker, Sr.

(Educational Administration)  
B.A., Henderson State Teachers College

M.S.E., University of Arkansas

Johnny K. Williams (Educational Administration)

B.S.E., Arkansas State Teachers College  
M.A., George Peabody College

William Earl Willis (Educational Administration)

B.A., Arkansas A. & M. College  
M.A., George Peabody College



## DOCTOR OF EDUCATION

- James A. DeVazier (Physical Education)**  
B.S.E., Arkansas State Teachers College  
M.A., Memphis State University  
Dissertation: "Opinions Expressed by Members of Selected Civic Organizations in Arkansas Regarding Health, Physical Education and Recreation."
- Helen Viola Freeman (Elementary Education)**  
B.A., Louisiana Polytechnic Institute  
M.Ed., University of Arkansas  
Dissertation: "A Study of Ambiguity in the Language in Certain Textbooks for Grades Four, Five, and Six."
- Daniel Royce Fuller (Physical Education)**  
B.S., College of the Ozarks  
M.Ed., University of Arkansas  
Dissertation: "Construction of a Family Life Knowledge Test and the Relationship of Selected Factors to the Test Scores."
- Heber Baxton Hardy, Jr. (Secondary Education)**  
B.A., Arkansas State Teachers College  
A.M., George Peabody College  
Dissertation: "A Survey of Some Administrative Procedures and Methods of the State-Supported Colleges of Arkansas and the College of Arts and Sciences of the University of Arkansas."
- Selma Ann Plowman Hobby (Secondary Education)**  
B.S.E., University of Arkansas  
M.S., University of Arkansas  
Dissertation: "The Little Rock Public Schools During Reconstruction, 1865-1874."
- Howell Wendell Keeter (Educational Administration)**  
B.S.E., Arkansas State Teachers College  
M.S.E., Arkansas State Teachers College  
Dissertation: "Factors Affecting Gymnasium Costs in Arkansas."
- Frank Julian Linn (Educational Administration)**  
A.B., Drury College  
M.Ed., Drury College  
Dissertation: "Voting Dates and Their Implications on School Elections in Arkansas."
- Florence Rieger McCormick (Secondary Education)**  
B.S.E., University of Arkansas  
M.S., University of Arkansas  
Dissertation: "The Outdoor Laboratory: In-Service Education in the Processes of Science."
- Wayne Ross McElroy (Secondary Education)**  
B.A., Ottawa University  
M.S., Kansas State College  
Dissertation: "The Evaluation of a Curriculum for Potential Dropouts Developed by the Project: OZARKS OF ARKANSAS: Programmed for Educational and Cultural Development."
- Dorothy Dodd Miller (Secondary Education)**  
B.A., Centenary College  
M.Ed., University of Arkansas  
M.S., University of Arkansas  
Dissertation: "The Effect of an Experimental Approach to Science Instruction on the Achievement of Certain Sixth Grade Students."
- William Edwin Segall (Secondary Education)**  
B.A., Yankton College  
M.Ed., Texas Western College  
Dissertation: "A Study of Collective Professionalism in Western Canada: The Alberta Teachers' Association."
- Clarence Russell Williams (Secondary Education)**  
B.A., College of the Ozarks  
M.M.Ed., University of Oklahoma  
Dissertation: "Construction and Validation of a Test of Aesthetic Judgment in Art."

## DOCTOR OF PHILOSOPHY

- Melvin K. Anderson (Engineering)**  
B.S., John Brown University  
M.S., University of Wyoming  
Dissertation: "Energy Storage and Extraction in Superconducting Coils."
- Raymond James Coleman (Business Administration)**  
B.S., University of Kansas  
M.A., Central Missouri State College  
Dissertation: "Relationship of Executive Characteristics and Growth Factors of Kansas Farm Equipment Manufacturers."
- John Bernard Dressman (Engineering)**  
B.S., University of Kentucky  
M.S., University of Kentucky  
Dissertation: "Investigation of the Extrinsic Factors Associated with the Total Condensation of Steam Within Horizontal, Rectangular Cross-Section Channels."
- Clifford Lee Eubanks (Business Administration)**  
B.S., Arkansas State College  
M.B.A., University of Arkansas  
Dissertation: "An Analysis of the Factors Affecting the Effectiveness of Mail Surveys as a Research Method."
- Nawzad Fadhel (Pharmacology)**  
B.A., University of Baghdad  
M.A., University of Kansas  
Dissertation: "An Investigation of the Cardiovascular Responses to Apomorphine."
- Billy J. Forsyth (Zoology)**  
B.S., Arkansas State Teachers College  
M.S., University of Arkansas  
Dissertation: "Vernal Nocturnal Migration of Landbirds in the Coastal Bend Region of Texas."
- Ronald Burke Geenens (Economics)**  
B.A., Baker University  
M.A., Kansas City University  
Dissertation: "Economic Adjustments to the Termination of the Bracero Program."
- Bobby Lee Hamm (Finance)**  
B.S., Harding College  
M.B.A., University of Arkansas  
Dissertation: "The Location Subsidy Issue."
- Ronald Wilbert Harris (Physics)**  
B.S., University of Southwestern Louisiana  
M.S., University of Arkansas  
Dissertation: "X-Ray Diffraction of CF<sub>4</sub> in the Liquid State."
- Ronald Byron Hearn (English)**  
B.A., Baylor University  
M.A., Emory University  
Dissertation: "A Survey of William Wordsworth's Reading."
- James Carroll Hill (Microbiology)**  
B.S., Arkansas State College  
M.S., University of Arkansas  
Dissertation: "Microbial Transformation of Phenazines by *Aspergillus Sclerotiorum*."



Robert Lewis Hudson (Psychology)

B.A., University of Arkansas  
M.A., University of Arkansas

Dissertation: "Clustering in Short Term Recall as a Function of Level of Information and Number of Stimulus Presentations."

Elise Dort Isely (English)

B.A., University of Wichita  
M.A., University of Wisconsin

Dissertation: "The Sources of the Imagery in the Poetry of E. A. Robinson."

Robin Richard Jones (Biochemistry)

B.S., University of Arkansas  
M.S., University of Arkansas

Dissertation: "Transport Behavior of Alpha-Amino-Isobutyric Acid, Cycloleucine, and Thiourea in Skeletal Muscle."

Richard Dean Kealy (Animal Science)

B.S., University of Nebraska  
M.S., University of Nebraska

Dissertation: "Studies on the Absorption, Excretion, and Metabolism of the Carbon-14 Labeled Tetrasodium Salt of Ethylenediaminetetracetic Acid in Chicks."

Charles Wendell Lamb (Engineering)

B.S.Ch.E., University of Arkansas

Dissertation: "The Effect of Chemical Composition on the Rheological Properties of Asphalt."

Katherine Gay Lederer (English)

B.A., Sam Houston State Teachers College  
M.A., University of Arkansas

Dissertation: "The Critical Reaction to the Dramatic Works of Lillian Hellman."

H. Rodney Martin (Chemistry)

B.S., Southwestern State College

Dissertation: "Decay Schemes of the Neutron-Rich Rare Earth Nuclides,  $Tb^{162}$ ,  $Tb^{164}$ ,  $Pr^{148}$ , and  $Ce^{146}$ ."

Martin Jack McCutcheon (Engineering)

B.S.E.E., University of Arkansas  
M.S.E.E., University of Arkansas

Dissertation: "Magnetohydrodynamic Studies in Cylindrical Systems with Power Generation Applications."

Frankie McHan (Botany and

Bacteriology)

B.S., Arkansas A. & M. College  
M.S., University of Arkansas

Dissertation: "Studies on the Nutritional Requirements of *Monascus Purpureus*."

Gene Dale Pynes (Biochemistry)

B.A., Hendrix College  
M.S., University of Arkansas

Dissertation: "Studies on Purified Inorganic Pyrophosphatase."

Jesse Paul Ritter, Jr. (English)

B.A., Kansas State Teachers College

M.A., University of Arkansas

Dissertation: "Fearful Comedy: The Fiction of Joseph Heller, Gunter Grass, and the Social Realist Genre."

David Paul Ross (Physics)

B.S., University of Arkansas

Dissertation: "Positive Ion Heating in Plasmas Produced From the Solid State."

Jack Robert Schmid (Pharmacology)

B.S., Michigan State University

M.S., Michigan State University

Dissertation: "A Study of the Antiarrhythmic Actions and other Cardiovascular Effects of MJ 1999 and Iproveratril."

Manohar Raghunath Wanjari

(Agronomy-Plant Breeding)

M.S., University of Arizona

Dissertation: "The Inheritance of the Brown Seedcoat and Other Associated Characters in Grain Sorghum (*Sorghum Vulgare* Pers.)"

James P. White (Bacteriology)

B.S., Marian College

M.S., University of Arkansas

Dissertation: "Growth and Pigmentation of *Helminthosporium Cynodontis*."

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# Honorary Degrees

## DOCTOR OF LAWS

John W. Gardner  
William L. Giles

Alexander E. Jones

# Citations

## DISTINGUISHED ALUMNUS

Neil E. Harlan  
James W. Trimble

T. D. Williamson

# Awards

## TRUSTEE EMERITUS

Earl H. Wildy

NOTE—The above list contains the names of all prospective degree candidates and is not an official list of those actually receiving degrees.



